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# KOREAN PATENT ABSTRACTS

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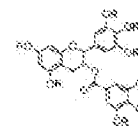
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(54) **EPIGALLOCATECHIN-3-GALLATE(EGCG) DERIVATIVES, PREPARATION METHOD THEREOF, AND COSMETIC COMPOSITION CONTAINING THE SAME**

## (57) Abstract:

PURPOSE: Epigallocatechin-3-gallate(EGCG) derivatives, a preparation method thereof, and a cosmetic composition containing the same compounds are provided, thereby inhibiting the active oxygen oxidation of the skin, inhibiting the formation of peroxide, so that the aging of the skin can be inhibited. CONSTITUTION: Epigallocatechin-3-gallate(EGCG) derivatives represented by formula 1 are provided, wherein R is nicotinoyl, isonicotinoyl or picolinoyl. A method for preparing the epigallocatechin-3-gallate(EGCG) derivatives of formula 1 comprises the steps of: (1) reacting nicotinic acid with EGCG in organic solvent using dicyclohexyldiimide and dimethylaminopyridine as coupling agents to prepare EGCG derivatives; (2) first purifying the EGCG derivatives using organic solvent; and (3) isolating and purifying first purified EGCG derivatives using ion exchange resin. A cosmetic composition contains the epigallocatechin-3-gallate(EGCG) derivatives of formula 1 in the amount of 0.001 to 20 wt.%,



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